

Additive Manufacturing for Advanced Metallic Aerostructures

2015-2018

Axe(s)

Metall. Alloys & Processes
Modeling & Simulation

Industries

Sonaca
Gdtech
Siemens Samtech

Research Bodies

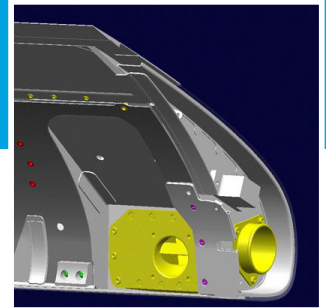
CRIBC
UCL
ULB
SIRRIS

Total Budget

2,75 M€

Type

R&D



The project's primary target is to setup industrial and competitive tools to perform Additive Manufacturing of aerospace components.

In order to do this, it is necessary to select and develop the most suitable process related to each type of component.

The first part of the project aims at optimizing process parameters in function of the desired microstructure and mechanical properties. It is also a must to put in place the upstream and downstream processes to ensure quality and repeatability of the parts.

In parallel, it is planned to develop adapted design methods in order to integrate them into the usual practices of aeronautical design offices. The last phase of the project will focus on demonstrators: the quality and the functionality of those demonstrators will then be proven through test campaigns.